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Sheet 1 of 4

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 2026-4282	SERIAL NO. 09/744,289
<b>INFORMATION DISCLOSURE CITATION</b>  (Use several sheets if necessary)		APPLICANT SZU et al.	
		FILING DATE January 22, 2001	GROUP ART UNIT TBA 1645

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4,356,170	10/26/82	JENNINGS ET AL			
	4,711,779	12/8/87	PORRO ET AL			
	5,371,197	12/6/94	MARBURG ET AL			
	5,585,100	12/17/96	MOND ET AL			
	5,693,326	12/2/97	LEES			
	5,773,007	6/30/98	PENNY ET AL			
	5,785,973	7/28/98	BIXLER ET AL			
	5,370,872	12/6/94	CRYZ ET AL			
	5,306,492	4/26/94	PORRO			
	5,153,312	10/6/92	PORRO			

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Papers, Etc.)

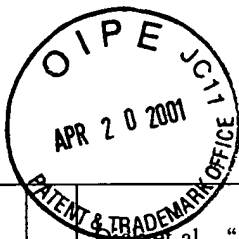
	Chu, C; "Preparation, Characterization, an Immunogenicity of Conjugates Composed of the O-Specific Polysaccharide of Shigella dysenteriae Type 1 (Shiga's Bacillus) Bound to Tetanus Toxoid", <i>Infection and Immunity</i> , Vol. 59, No.12; pp 4450-4458, December 1991.
	Cryz, S.J, "Synthesis and Characterization of Escherichia coli 018 O-Polysaccharide Conjugate Vaccines", <i>Infection and Immunity</i> , Vol. 58, No. 2, pp 373-377, February 1990.

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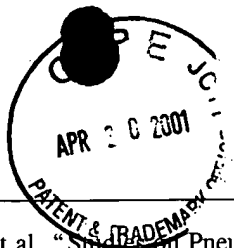
180			Johnson, R.P., "Serum Antibody Responses of Cattle Following Experimental Infection with Escherichia coli O157:H7", <i>Infection and Immunity</i> , Vol. 64, pp 1879-1883, May 1996.
		✓	Conference Discusses Ways to Reduce E. coli at Farm and Slaughter, <i>Food Chemical News</i> , Vol. 37, No. 9 (Abstract) April 24, 1995.
		✓	E. coli, VTEC Research Reviewed at IAMFES Meeting, <i>Food Chemical News</i> , Vol 38, No. 21, (Abstract) July 15, 1996.
		✓	Brief Notes: Researchers at the National Institutes of Health, <i>Food Chemical News</i> , Vol 39, No. 52, (Abstract) February 16, 1998.
			E. coli US Experts: Food Poisoning Vaccine Works, <i>Vaccine Weekly</i> , (Abstract), March 2, 1998.
		✓	Product News: Escherichia coli Vaccine Specific to E. coli O157 Might be Useful for Prophylaxis and Treatment, <i>Inpharma</i> , (Abstract), February 24, 1998.
			You Should Know, <i>Food Institute Report</i> , Vol. 71, No. 7, (Abstract), February 16, 1998.
		✓	Konadu et al, "Synthesis and Immunologic Properties of O-Specific Polysaccharide-Protein Conjugate Vaccines for Prevention and Treatment of Infections with Escherichia coli O157 and Other Causes of the Hemolytic-Uremic Syndrome", In <u>Escherichia coli O157:H7 and other Shiga Toxin-Producing E. coli Strains</u> , Ed. JB. Kaper and A.D. O'Brien, American Society for Microbiology, Washington, pp 419-424 (June 19, 1998) (based on a symposium and workshop held in Baltimore, MD, June 22-26, 1997)
		✓	Meeting schedule and slides from presentation by Shousun C. Szu entitled "LPs-based vaccine" held on June 26, 1997 during a symposium and workshop of the American Society for Microbiology, Washington, DC, held in Baltimore, MD, June 22-26, 1997 (with re-typed text of the slide labeled "Why is conjugate better" and computer printout of "Anti-LPS IgG (Preliminary slide)
↓		✓	Claesson et al, "Clinical and Immunologic Responses to the Capsular Polysaccharide of Haemophilus Influenzae Type b Alone or Conjugated to Tetanus Toxoid in 18-to 23 month old Children", <i>Journal of Pediatrics</i> , Vol. 112 No. 5 pp 695-702, May 1988

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VBP		Dier et al., "Glycoconjugates of Bacterial Carbohydrate Antigens a Survey and Consideration of Design and Preparation Factors", Cruse JM, Lewis RE Jr. (eds) <i>Conjugate Vaccines</i> , Vol. 10, pp 48-114, 1989.
		Gupta, R.K., "Comparative Immunogenicity of Conjugates Composed of Escherichia coli 0111 O-Specific Polysaccharide, Prepared by Treatment with Acetic Acid or Hydrazine, Bound to Tetanus Toxoid by Two Synthetic Schemes", <i>Infection and Immunity</i> Vol. 63, No. 8., pp 2805-2810, August 1995.
		Konadu et al, "Investigational Vaccine for Escherichia coli 0157: Phase 1 Study of 0157 O-Specific Polysaccharide-Pseudomonas aeruginosa Recombinant Exoprotein A Conjugates in Adults", <i>The Journal of Infectious Diseases</i> . February 1998, Vol. 177, pp 383-387. (mailed out to the public on January 21, 1998).
		Konadu et al, "Preparation, Characterization, and Immunological Properties in Mice of Escherichia coli 0157 O-Specific Polysaccharide-Protein Conjugate Vaccines", <i>Infection and Immunity</i> , Vol. 62, No. 11, pp 5048-5054, November 1994.
		Robbins et al, "O-Specific Side-Chain Toxin-Protein Conjugates as Parental Vaccines for the Prevention of Shigellosis and Related Diseases", <i>Reviews of Infectious Diseases</i> , Vol. 13, No. 4 supplement, pp S362-S365, 1991.
	X	Sjogren et al, "Influence of Shiga-like toxin production in Enteric Infection with an Enteropathogenic Escherichia coli strain", <i>Gastroenterology</i> , Vol. 92, No. 5, Part 2 pp 1643, May 1987.
		Taylor et al, "Synthesis, Characterization, and Clinical Evaluation of Conjugate Vaccines Composed of the O-Specific Polysaccharides of Shigella dysenteriae Type 1, Shigella flexneri Type 2a, and Shigella sonnei (Plesiomonas shigelloides) Bound to Bacterial Toxoids", <i>Infection and Immunity</i> , Vol. 61, pp 3678-3687, September 1993.
	Y	Human Testing of E. Coli 0157:H7 Vaccine, <i>Food Chemical News</i> , , Vol. 37 No. 19 (Abstract), July 3, 1995.
	V	Lovett, R.A., "Training a Molecular Gun on Killer <i>E. coli</i> ", <i>Science</i> 282: 1404 , November 20, 1998.
Z		Robbins et al, "Hypothesis for Vaccine Development: Protective Immunity to Enteric Diseases Caused by Nontyphoidal Salmonellae and Shigellae May be Conferred by Serum IgG Antibodies to the O-Specific Polysaccharide of their Lipopolysaccharides", <i>Clinical Infectious Diseases</i> , Vol 15 pp 346-361, 1992.

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VB			Sarnaik et al, "Studies on Pneumococcus Vaccine alone or Mixed with DTP and on Pneumococcus Type 6B and Haemophilus influenzae Type b Capsular Polysaccharide-tetanus Toxoid Conjugates in Two-to Five-year Old Children with Sickie Cell Anemia", <i>Pediatric Infect. Dis. J.</i> Vol. 9, pp 181-186, 1990
			Schneerson et al, "Quantitative and Qualitative Analyses of Serum Antibodies Elicited in Adults by Haemophilus Influenzae Type b and Penumococcus Type 6A Capsular Polysaccharide-Tetanus Toxoid Conjugates", <i>Infection and Immunity</i> , pp 519-528, May 1986.
			Robbins et al, "Perspective: Hypotheses: Serum IgG Antibody is Sufficient to Confer Protection against Infectious Diseases by Inactivating the Inoculum", <i>Journal of Infectious Diseases</i> , Vol. 171, pp 1387-98, February 1995.
2			Cryz et al, "Safety and Immunogenicity of Escherichia Coli 018 O-Specific Polysaccharide (O-PS)-Toxin A and O-PS-Cholera toxin Conjugate Vaccines in Humans", <i>Journal of Infectious Diseases</i> , Vol. 163, pp 1040-1045, 1991.
<b>EXAMINER</b>			<b>DATE CONSIDERED</b>
			7/2/03
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			